

Soviet Physics Journal 1979 vol.22 N7, pages 761-765

Mössbauer studies of sublattice magnetization curves of ferromagnets with several species of characterizing ions

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Abstract

The paper gives a model of a local molecular field describing the magnetization curves in iron garnets separately according to magnetic sublattices. It takes account of the relation between the ion distribution over the lattice sites as well as the values of the local magnetic field and the parameters of the superexchange interaction in such materials. The relations obtained are compared with the data of Mössbauer and NMR spectroscopy. © 1980 Plenum Publishing Corporation.

<http://dx.doi.org/10.1007/BF00902895>
